

# Chapter 7 Chemical Formulas And Chemical Compounds

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#### **7 Chemical Formulas and Chemical Compounds**

CHAPTER 7 REVIEW Chemical Formulas and Chemical Compounds SECTION 1 SHORT ANSWER Answer the following questions in the space provided 1 c In a Stock system name such as iron(III) sulfate, the Roman numeral tells us (a) how many atoms of Fe are in one formula unit (b) how many sulfate ions can be attached to the iron atom (c) the charge on

#### **CHAPTER 7 Chemical Formulas and Chemical Compounds**

chemical formula reveals the number of atoms of each element con-tained in a single molecule of the compound, as shown below for the hydrocarbon octane (Hydrocarbons are molecular compounds com-posed solely of carbon and hydrogen) CHEMICAL FORMULAS AND CHEMICAL COMPOUNDS 203 SECTION 7-1 O BJECTIVES Explain the significance of a chemical formula

#### **Chemical Formulas and Chemical Chapter 7 Compounds**

Chapter 7 Section 1 Chemical Names and Formulas Naming Binary Ionic Compounds, continued The Stock System of Nomenclature, continued Sample Problem B Solution, continued The subscripts give charges of  $1 \times 3+ = 3+$  and  $3 \times 1- = 3-$  The largest common factor of the subscripts is 1, so the smallest whole number ratio of the ions is 1:3

#### **Chapter 7: Chemical Formulas and Chemical Compounds**

Chapter 7: Chemical Formulas and Chemical Compounds Section 2: Oxidation Numbers Oxidation numbers An oxidation number, also called oxidation state, indicates the general distribution of electrons among the bonded atoms in a molecular compound or polyatomic ion Unlike ionic charges, oxidation numbers do not have an exact physical meaning

#### **Chapter 7: Chemical Formulas and Chemical Compounds**

Chapter 7: Chemical Formulas and Chemical Compounds Section 7-1: Chemical Names and Formulas 7-1-1 Explain the significance of a chemical

formula The subscript indicates that there are 8 carbon atoms in the molecule of octane The subscript indicates that there are 18 hydrogen atoms in the molecule of octane Subscript 2 refers to 2 aluminum

## CHAPTER 7 Chemical Formulas and Chemical Compounds

systematic methods for naming compounds and writing chemical formulas In this chapter, you will be introduced to some of the rules used to identify simple chemical compounds CH3a MAIN IDEA Formulas tell the number and kinds of atoms in a compound Recall that a chemical formula indicates the relative number of atoms

### Chapter 7 Notes - Chemistry; Chemical Formulas and ...

Chapter 7 Notes - Chemistry; Chemical Formulas and Chemical Compounds Molecules and Molecular Compounds • A molecule consists of two or more atoms bounded together Molecules and Chemical Formulas • Each molecule has a chemical formula • The chemical formula indicates: 1 Which atoms are found in the molecule, and 2

### Chapter 7: Chemical Formulas and Chemical Compounds

7 SiO 2 N 2O 5 SF 6 P 2Cl 3 NH FI 3 NO 2 CBr 2 Carbon disulfide Carbon Tetrachloride Nitrogen monoxide Diphosphorus Trioxide Diboron tetrahydride Dichlorine Heptoxide Sulfur dibromide Carbon dioxide Tetraphosphorus decoxide Chapter 7: Chemical Formulas and Chemical Compounds Author:

### 7 Chemical Formulas and Chemical Compounds

CHAPTER 7 REVIEW Chemical Formulas and Chemical Compounds MIXED REVIEW SHORT ANSWER Answer the following questions in the space provided 1 Write formulas for the following compounds: CuCO 3 a copper(II) carbonate Na 2SO 3 b sodium sulfite (NH 4) 3PO 4 c ammonium phosphate SnS 2 d tin(IV) sulfide HNO 2 e nitrous acid 2

### 7 Chemical Formulas and Chemical Compounds

CHAPTER 7 REVIEW Chemical Formulas and Chemical Compounds SECTION 4 SHORT ANSWER Answer the following questions in the space provided 1 Write empirical formulas to match the following molecular formulas: CH 3O 2 a C 2H 6O 4 N 2O 5 b N 2O 5 HgCl c Hg 2Cl 2 CH 2 d C 6H 12 2 C 4H 8 A certain hydrocarbon has an empirical formula of CH 2 and

### CHAPTER 7 CHEMICAL COMPOUNDS & CHEMICAL ...

CHEMICAL NAMES & FORMULAS • Most everyday chemical compounds are given common names • But, these names don't tell us about the chemical composition of the chemicals • Nomenclature systems allow for us to use the most accurate name for chemicals

### CHAPTER 7 REVIEW Chemical Formulas and Chemical ...

Modern Chemistry 57 Chemical Bonding CHAPTER 7 REVIEW Chemical Formulas and Chemical Compounds SECTION 3 SHORT ANSWER Answer the following questions in the space provided 1 Label each of the following statements as True or False: \_\_\_\_ a If the formula mass of one molecule is x u, the molar mass is x g/mol \_\_\_\_ b

### Chapter 7 - Chemical Formulas and Chemical Compounds

Chapter 7 - Chemical Formulas and Chemical Compounds Section 1 Chemical Names and Formulas The chemical formulas tells the number of atoms of each element in a compound Ionic compounds consist of Cations and Anions Binary Compounds - compounds made of two elements Nomenclature - the naming system

### Chemical Names and Formulas - AP Biology

Chemical Names and Formulas • ELECTRONS AND THE STRUCTURE OF ATOMS • BONDING AND INTERACTIONS 91 Naming Ions Essential Understanding Ions are named by determining their charges and applying certain rules Reading Strategy Concept Map A concept map helps you organize concepts, using visual relationships and

### **Chemical Formulas and Compounds**

Chapter 7 Section 1 Chemical Names and Formulas Lesson Starter •  $\text{CCl}_4$   $\text{MgCl}_2$  • Use the formulas to guess the name of these compounds • What kind of information can you tell from the formulas? • Guess which compound is molecular and which is ionic • Chemical formulas are the language of chemistry and tell us a lot about the

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1 Core Instruction Instruction and Intervention Support Chemical Formulas and Chemical Compounds Chapter Resources The Teacher's Edition wrap has extensive teaching support for every lesson, including Misconception Alerts, Teach from Visuals, Demonstrations, Teaching Tips, Differentiated Instruction, and Problem Solving support

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### **Chapter7:!!Calculations!with!Chemical!Formulas!and ...**

! 96! Chapter7:!!Calculations!with!Chemical!Formulas!and!Chemical!Reactions!!

Chemical!reactions!are!written!showing!a!few!individual!atoms!or!molecules!

### **STUDY GUIDE: Naming & Formulas of Ionic Compounds**

STUDY GUIDE: Naming & Formulas of Ionic Compounds Are you Beginning, Developing, or Accomplished at each of the following learning goals? Go through the check list and mark each row as "B", "D", or "A" based on your level of understanding

### **Name Date Class CHEMICAL NAMES AND FORMULAS 9**

Chapter 9 Chemical Names and Formulas 85 Names and Formulas for Bases (page 273) 6 A base is a compound that produces \_\_\_\_ when dissolved in water 7 How are bases named? SECTION 95 THE LAWS GOVERNING FORMULAS AND NAMES (pages 274-279) This section uses data to demonstrate that a compound obeys the law of